



Inventors: Hajime HARASHIMA  
 filed: September 22, 2003  
 Serial No.: 10/664,890  
 UGHRUE Tel. No. 202-293-7060  
 or: DATA WRITING APPARATUS, DATA  
 WRITING/READING APPARATUS, DATA  
 WRITING METHOD AND...  
 Art Unit: 2189  
 Conf. No.: 4268  
 Ref. No.: Q77475

REPLACEMENT SHEET 1 of 13

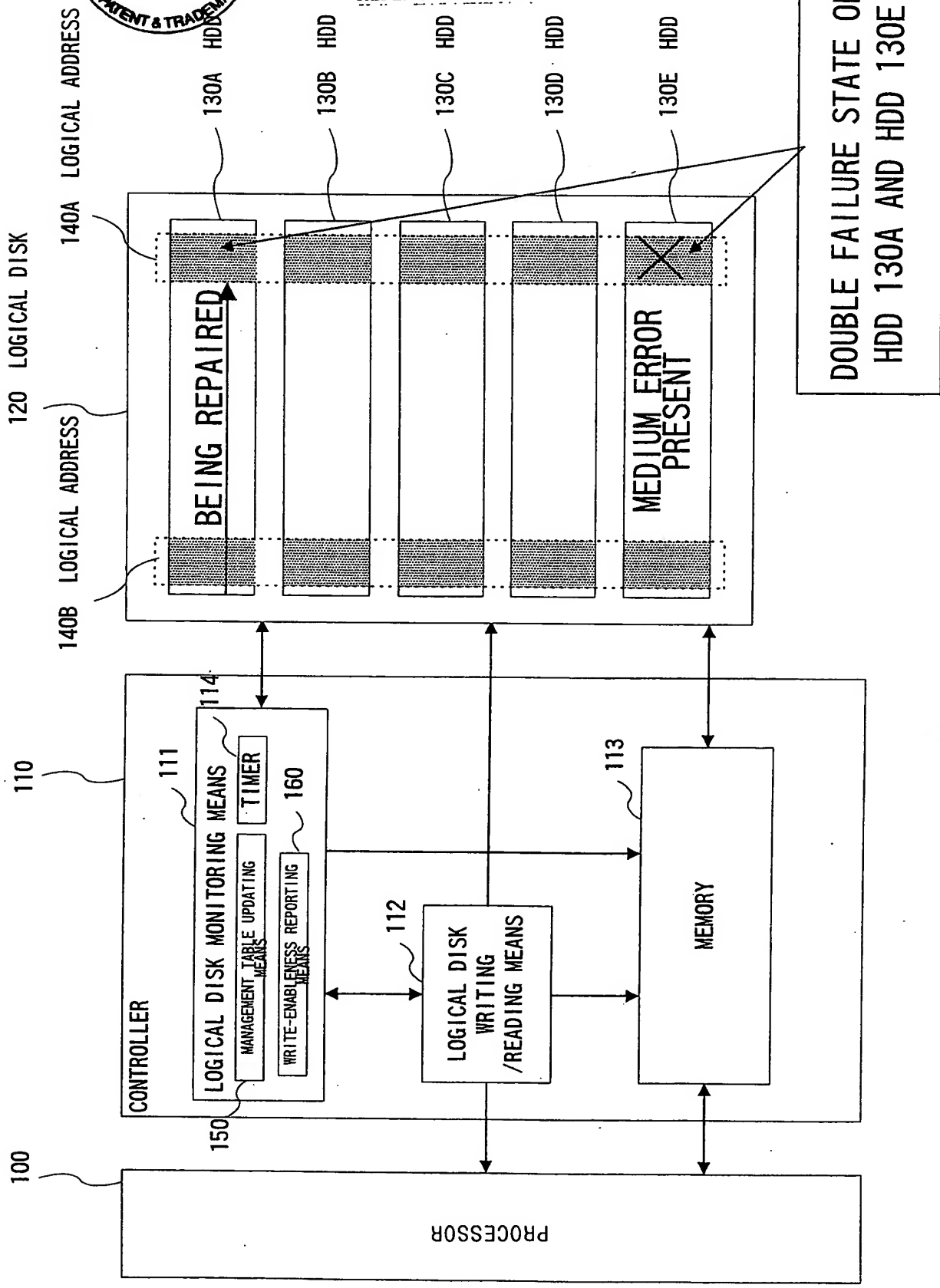


FIG.1

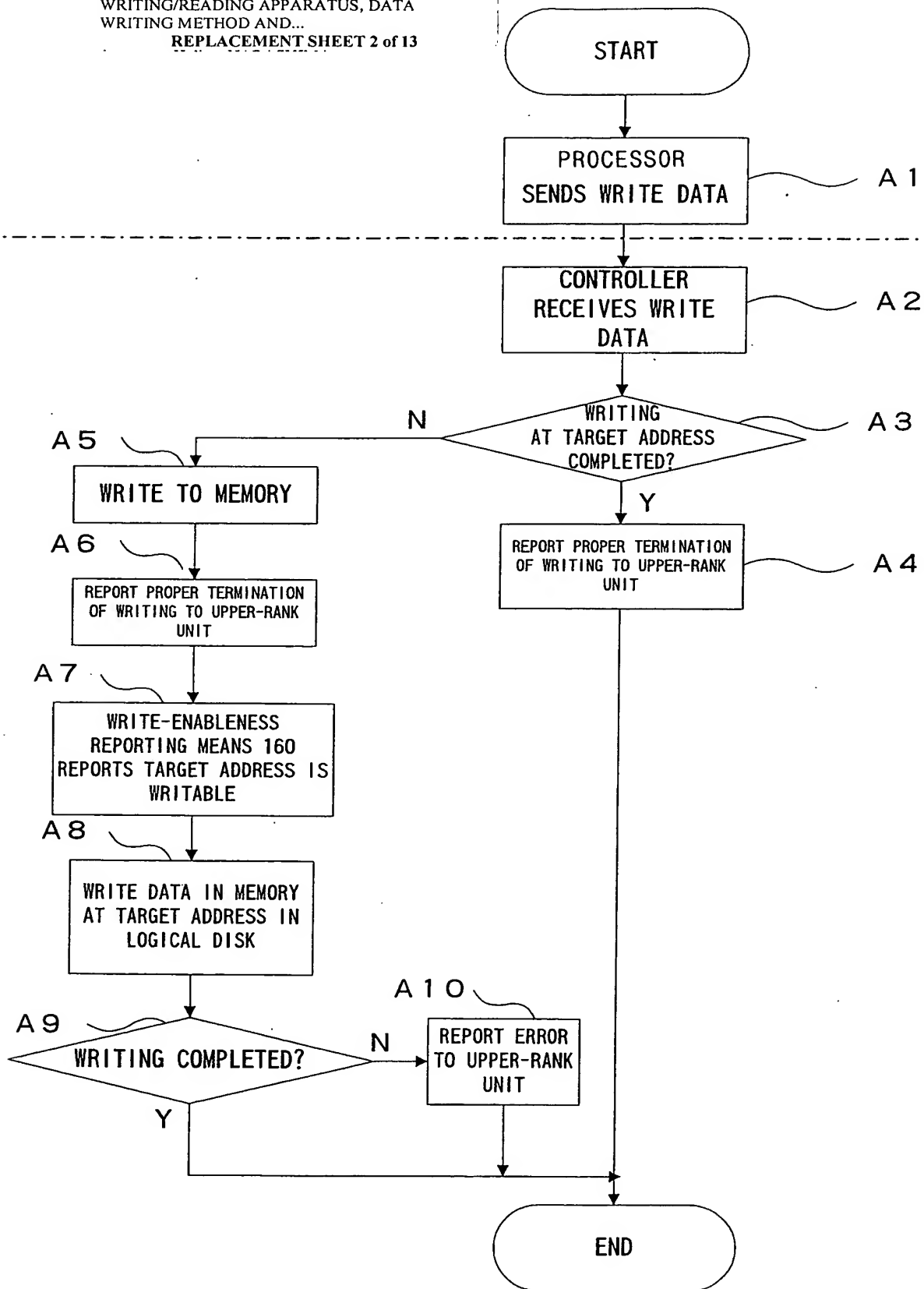


FIG.2

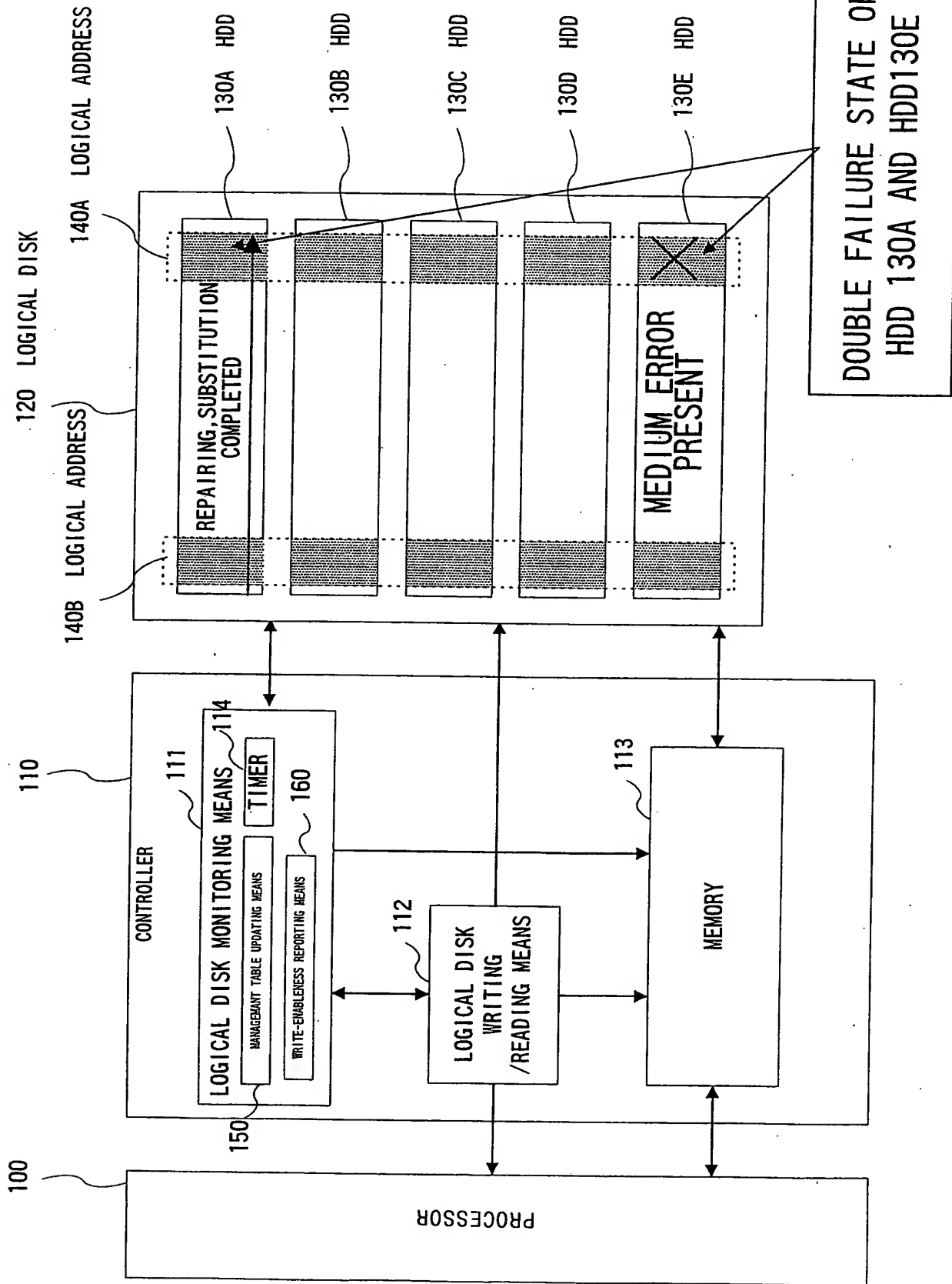


FIG. 3

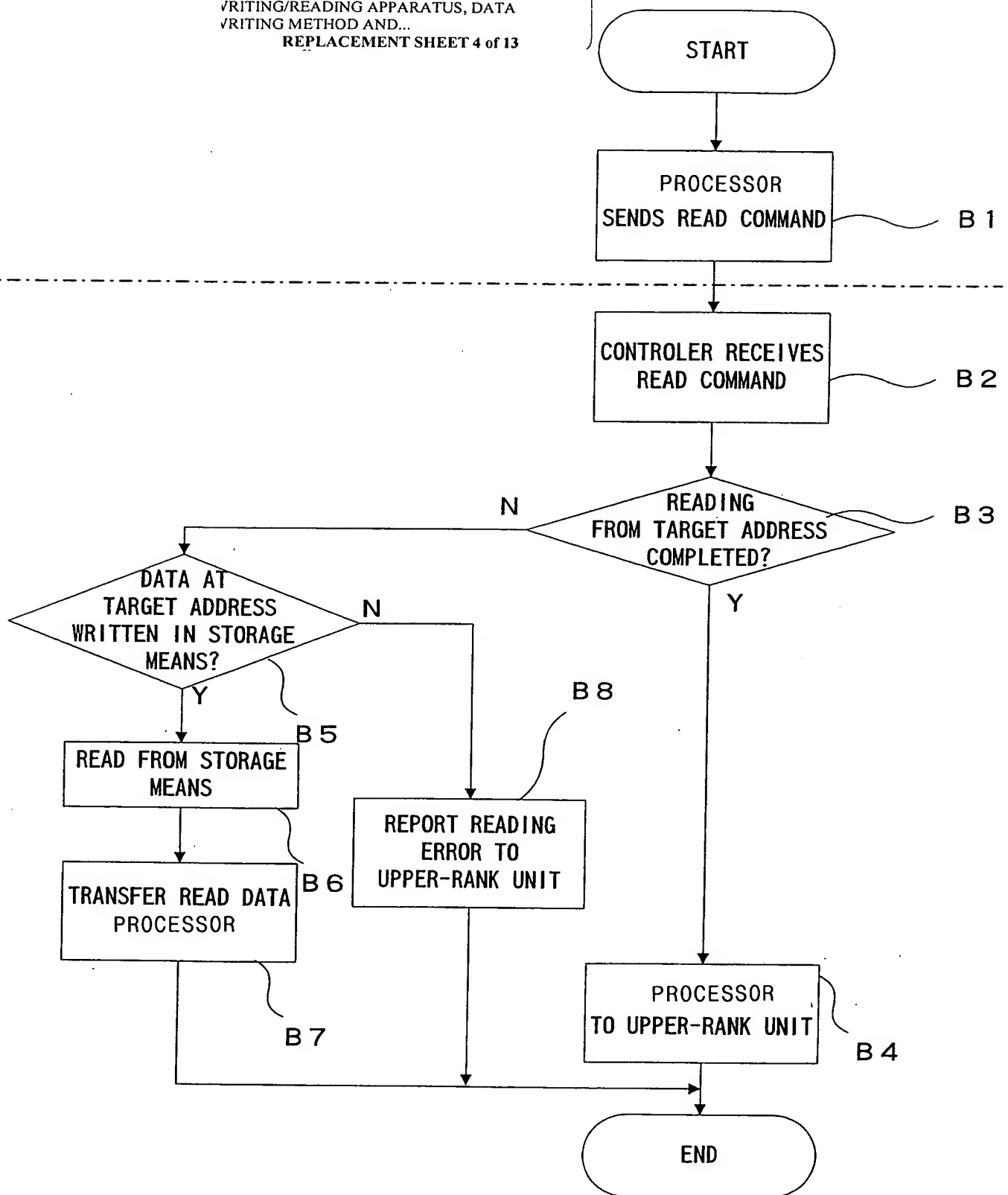


FIG.4

MANAGEMENT TABLE 151

LOGICAL ADDRESS	...	140B	...	140A	...
1. Repair					
2. REASSIGN DONE/UNDONE					
3.	Read				
	Write				

FIG.5

LOGICAL ADDRESS	1 4 0 A	
1. Repair	Repairskip	
2. REASSIGN DONE/UNDONE	Reassign OK	
3. Read / Write	READ NG	WRITE OK

FIG.6

LOGICAL ADDRESS	140B
1. Repair	Repair OK
2. REASSIGN DONE/UNDONE	
3. Read / Write	READ OK
	WRITE OK

FIG. 7

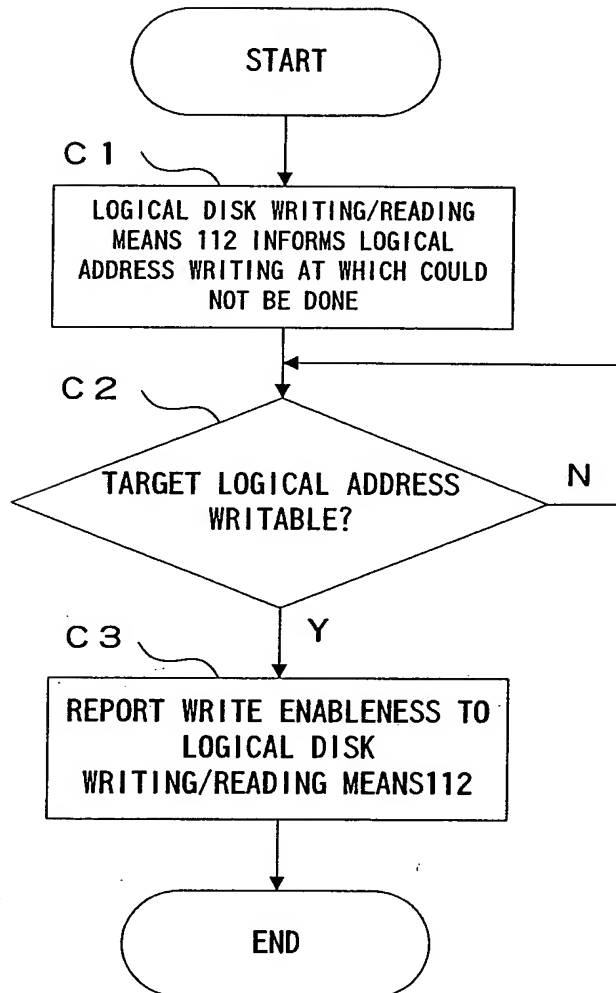


FIG. 8





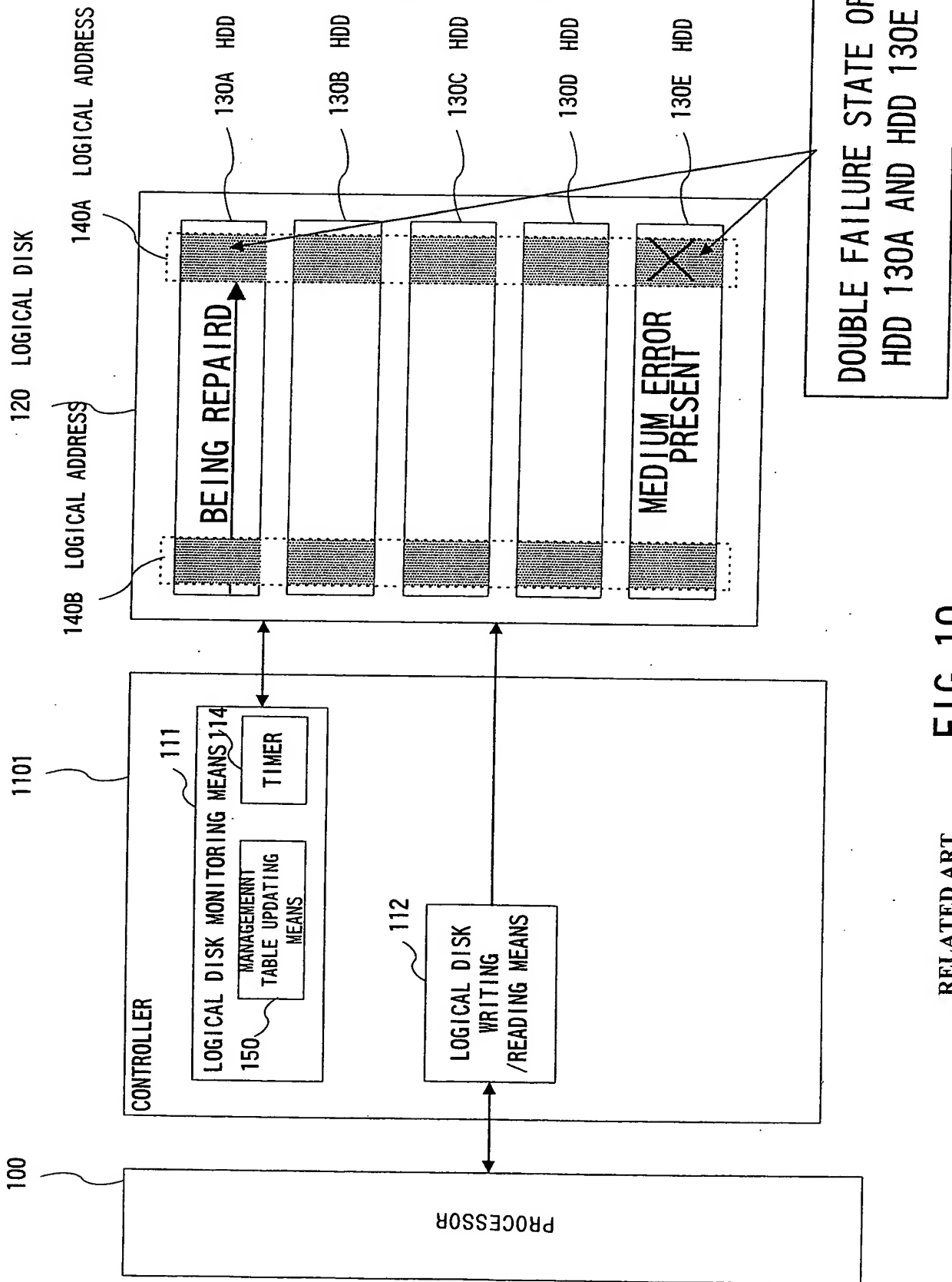


FIG.10

RELATED ART

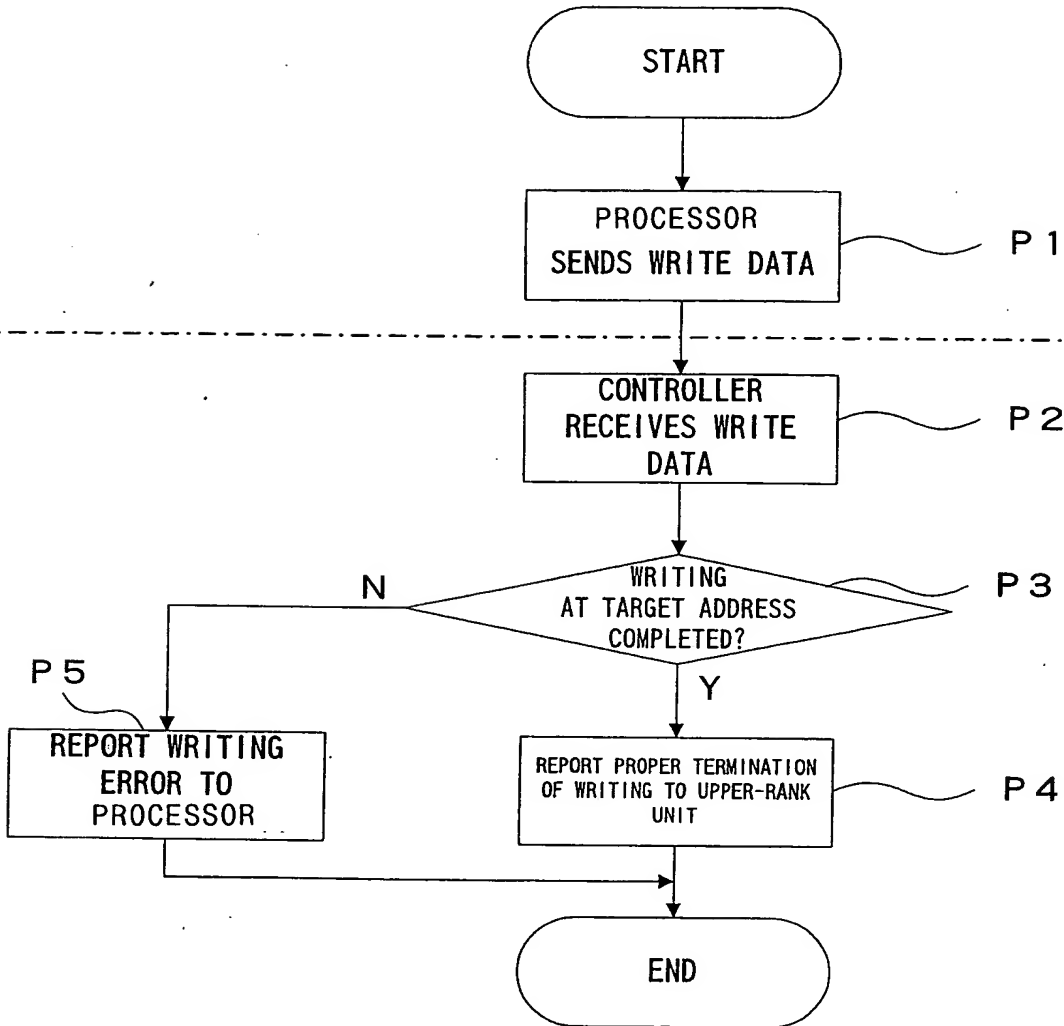


FIG. 11

PRIOR ART

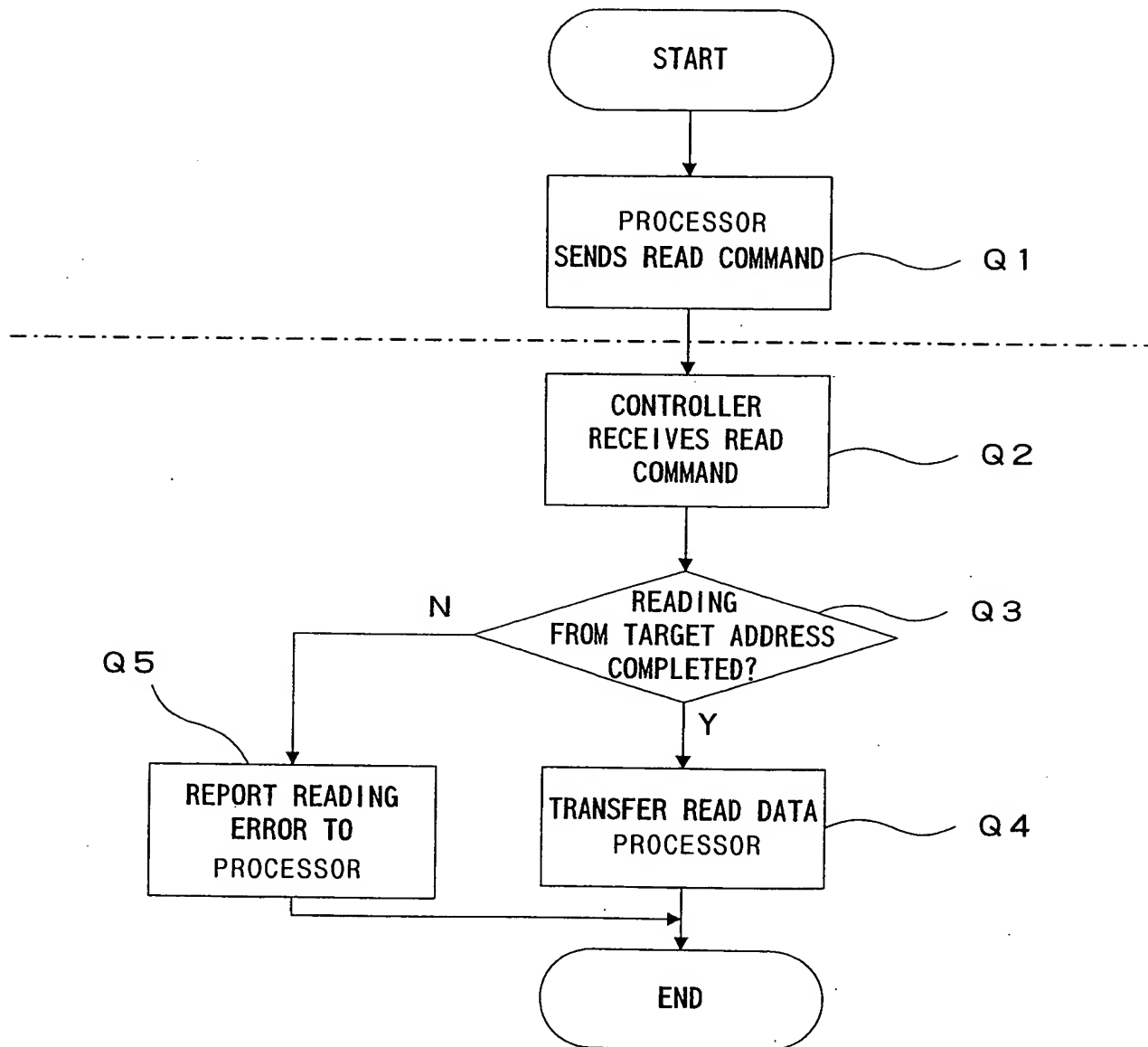


FIG. 12

PRIOR ART

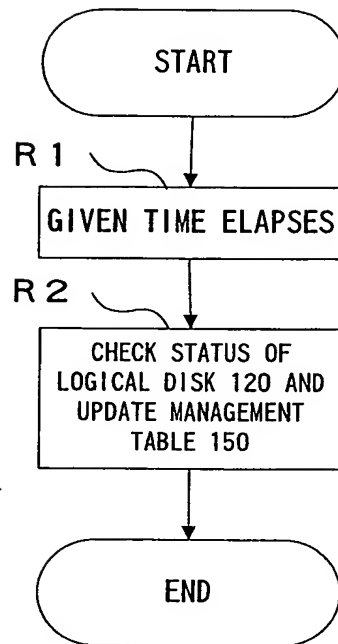


FIG. 13

RELATED ART